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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul D. Durkee (Reg. No. 41,003) on 04/29/10.

The application has been amended as follow:

CLAIMS:

Claims 22 line 1 change "claim 21" to claim -18--.

Allowable Subject Matter

Claims 13, 16-18, 20, 22 and 23 are allowed.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 13, 16-18, 20, 22 and 23 are allowed because the prior art does not teach or suggest a computer-implemented method of scheduling processing in a hardware threaded circuit, comprising: receiving and storing in a memory information including processing element resources, a number of processing elements, and a window size corresponding to a number of downstream processing states to be examined; generating a hardware threaded schedule for processing the application with at least first and second one of the processing elements being interconnected to enable dynamic resource sharing; synthesizing the hardware threaded schedule to an Application Specific Circuit (ASC); and synthesizing the hardware schedule to maximize throughput, wherein the first and second processing elements each include a first type of

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resource and a second type of resource and a multiplexer such that the interconnection includes at least one input signal being provided to the first type of resource in the first and second processing elements and with the combination of all other features corresponding to the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BINH C. TAT whose telephone number is (571)272-1908. The examiner can normally be reached on 9:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Binh C. Tat/
Examiner, Art Unit 2825

/THUAN DO/
Primary Examiner, Art Unit 2825